



(Knowledge for Development)

### KIBABII UNIVERSITY

## UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR

# FIRST YEAR FIRST SEMESTER MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN: AGRICULTURAL EDUCATION AND EXTENSION, AGRICULTURAL BIOTECHNOLOGY, AGRICULTURAL ECONOMICS, BIOLOGY, BIORESOURCE CONSERVATION AND MANAGEMENT AND BACHELOR OF EDUCATION SCIENCE

COURSE CODE:

SBT 100/SBT 111/ SBT 114

**COURSE TITLE:** 

GENERAL BOTANY/SURVEY OF THE PLANT

KINGDOM/BASIC BOTANY

DATE:

15<sup>TH</sup> February, 2021.

**TIME:** 2:00 -4:00 p.m.

#### INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over KIBU observes ZERO tolerance to examination cheating

## QUESTION ONE

	a) Explain three innovations that trace the evolution of the plant kingdom		
		(3 marks)	
	b) Distinguish between the three types of ascocarps	(3 marks)	
	c) Explain forms of gametic fusion in lower plants	(3 marks)	
	d) Describe how the sporophytes of pteridophytes are adapt	are adapted to living in	
	their habitats	(4 marks)	
	e) Distinguish pteridophytes from higher plants	(4 marks)	
	f) Draw the male and female plants of Marchantia sp	(3 marks)	
g) Outline three sub-classes of bryopsida indicating their common nan		mmon names	
		(3 marks)	
	h) How is the leaf of Sphagnum sp adapted to its function	(4 marks)	
	i) Elucidate three growth patterns exhibited by the thallus of	of lichens	
		(3 marks)	
	QUESTION. TWO		
	Describe the characteristics of the class bryopsida	(20 Marks)	
	QUESTION THREE		
	Discuss reproduction in lichens	(20 Marks)	
	QUESTION FOUR		
	Write an essay on the main classes of fungi	(20 Marks)	
	QUESTION FIVE		
	Discuss the ecological adaptations of algae	(20 Marks)	